

** Result [Patent] ** Format (P805) 22.Aug.2003 1/ 1

1990- 12003[1990/01/23]

~~[1996/12/26]~~

1991-178485 [1991/08/02]

1. *What is the main purpose of the study?*
 2. *What are the research objectives?*
 3. *What is the significance of the study?*
 4. *What is the scope of the study?*
 5. *What are the limitations of the study?*
 6. *What is the structure of the study?*
 7. *What is the conclusion of the study?*
 8. *What are the recommendations of the study?*
 9. *What are the future research directions?*
 10. *What is the overall impact of the study?*

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IPC: B41M 5/38

FI: B41M 5/26 ,101J

F-term: 2H11AA14, AA21, AA

BA53, BA54, BA62, BA63, BA64, BA73, BB04, BB05, BB06, BB07

Expanded classification: 294.142

Fixed keyword: R002, R124, R125

Citation: [19.1998. 7.23.04

Unexamined Publication of Patent, S61-262189) (04, JP, Unexamined Publication of Patent, S63-281888)

Title of invention: SUBLIMATION TYPE THERMAL TRANSFER MATERIAL

Abstract:

PURPOSE: To eliminate the lowering of transfer density and to prevent the release of an ink layer due to friction fixing by adding a substance having lubricity or releasability to the ink layer.

CONSTITUTION: It is necessary to lower the adhesive strength and friction force between an ink layer and the receiving layer of image receiving paper in order to prevent the adhesion of the ink layer to the image receiving paper. Therefore, it is necessary to add a substance having lubricity or releasability. As the substance having lubricity or releasability, for example, there are a petroleum type lubricant such as liquid paraffin and a synthetic lubricant such as hydrogen halide, diester oil, silicone oil or fluoro-silicone oil. The content of the substance having lubricity or releasability in a dye transfer contributing layer is pref. 5 - 30 wt.%. When the content is below 5 wt.% or less, releasability or fusion preventing effect is insufficient and, when the content exceeds 30%, sensitivity and preservability are lowered.

Searching by Document Number

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Application no/date: 1989-210698[1989/08/17]
 Date of request for examination: []
 Public disclosure no/date: 1991- 75191[1991/03/29]
 Examined publication no/date (old law): []
 Registration no/date: []
 Examined publication date (present law): []
 PCT application no []
 PCT publication no/date []
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 KI
 IPC: B41M 5/38
 FI: B41M 5/26 , 101J
 F-term: 2H111AA05,AA14,AA21,AA33,AA35,AA38,AA47,AA48,BA03,BA39,BA53,BA55,
 BA63,BA64,BA76,BB04,BB05,BB06
 Expanded classification: 294
 Fixed keyword: R002,R124,R125
 Citation:
 Title of invention: SUBLIMATION TYPE THERMAL TRANSFER MATERIAL
 Abstract:

PURPOSE: To eliminate the adhesion irregularity between an ink layer and an image receiving layer by smoothing the surface of the ink layer and to prevent the density irregularity and missing of dots in medium and low density parts by using silicone oil as the substance for providing lubricity or releasability to the ink layer.

CONSTITUTION: In a sublimation type thermal transfer material wherein an ink layer consisting of an org. binder, sublimable dye particles dispersed therein and a substance having lubricity or releasability contained therein is provided on a substrate, where the substance having lubricity or releasability is composed of silicone oil. As a material having lubricity or releasability and also having capacity for smoothing the surface of the ink layer, the silicone oil is effective and, as the silicone oil, dimethylsilicone oil, methylsilicone oil and methylphenylsilicone oil are proper and the addition amount thereof is pref. 5 - 30 wt. %.

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